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**From:** Sun, Meng@OEHHA [meng.sun@oehha.ca.gov]  
**Sent:** 4/30/2019 1:03:26 PM  
**To:** Houck, Keith [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=ed8dcdb7bb474016a3f3a53e54c03a8d-Houck, Keith]  
**Subject:** RE: Requesting a copy of the mapping spreadsheet for ToxCast assays

I see. Thank you for the update. I am tuning into the Converging on Cancer workshop today. There is a lot going on with NAMs these days!

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**From:** Houck, Keith <Houck.Keith@epa.gov>  
**Sent:** Tuesday, April 30, 2019 4:57 AM  
**To:** Sun, Meng@OEHHA <meng.sun@oehha.ca.gov>  
**Subject:** RE: Requesting a copy of the mapping spreadsheet for ToxCast assays

Hi Meng,  
We have not done any new mapping this year so you have the latest. I will not be in Oakland. I think there are a couple of others from the Center there, though.  
Best regards,  
Keith

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**From:** Sun, Meng@OEHHA <meng.sun@oehha.ca.gov>  
**Sent:** Monday, April 29, 2019 6:57 PM  
**To:** Houck, Keith <Houck.Keith@epa.gov>  
**Subject:** RE: Requesting a copy of the mapping spreadsheet for ToxCast assays

Hello Dr Houck,

We communicated last year when you kindly sent me the IARC mapping table for ToxCast assays. I'm writing to ask if you have an updated version for that table this year? If so, could you send one to us? That will help us greatly with organizing the mechanistic data for the chemical hazard that we are working on this year. Also, I heard that you will be coming to Oakland this Thursday for the Read-across Symposium. I will attend from OEHHA's Sacramento office, but I'd like to welcome you to California!

Best,  
Meng

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**From:** Houck, Keith <Houck.Keith@epa.gov>  
**Sent:** Thursday, May 24, 2018 1:43 PM  
**To:** Sun, Meng@OEHHA <meng.sun@oehha.ca.gov>  
**Subject:** RE: Requesting a copy of the mapping spreadsheet for ToxCast assays

Hello,  
Kate asked me to provide you with a copy of the latest mappings of ToxCast assays to Key Characteristics. I am attaching a table with the latest version of these from our internal discussions. These will be used in the Volume 122 meeting. Please let me know if you have any questions.  
Best regards,  
Keith

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Keith Houck, PhD

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Office of Research & Development  
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109 T.W. Alexander Dr.  
Research Triangle Park, NC 27711

919-541-5519 (office)  
[Houck.Keith@epa.gov](mailto:Houck.Keith@epa.gov)

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**From:** Kathryn Guyton [<mailto:GuytonK@iarc.fr>]  
**Sent:** Friday, May 11, 2018 3:48 AM  
**To:** Houck, Keith <[Houck.Keith@epa.gov](mailto:Houck.Keith@epa.gov)>  
**Subject:** FW: Requesting a copy of the mapping spreadsheet for ToxCast assays

Dear Keith,

Cal EPA OEHHA seems keen to understand and apply this approach; I'd be grateful if you would please clarify the number of assays mapped, as asked below. Please do not hesitate to reply to Meng directly, and to inform me if there is a version of the spreadsheet that would be useful for us to post with Monograph v115 (or another volume, including a future Monograph, such as v122).

Many thanks,  
With kind regards,

Kate  
Kate Z. Guyton, PhD DABT  
Scientist, Monographs Section

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International Agency for Research on Cancer



*Cancer Research for Cancer Prevention*

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**From:** "Sun, Meng@OEHHA" <[meng.sun@oehha.ca.gov](mailto:meng.sun@oehha.ca.gov)>  
**Date:** Thursday 10 May 2018 at 20:05  
**To:** Kate Guyton <[guytonk@iarc.fr](mailto:guytonk@iarc.fr)>  
**Subject:** RE: Requesting a copy of the mapping spreadsheet for ToxCast assays

Hi Dr Guyton,

Thank you so much for the message. Yes this was what we were hoping to get. We will use it for mapping the active assays for our chemicals of interest. And I think it will be helpful to post this on your website so other folks who wants to use the IARC approach can follow.

One thing I noticed is the different numbers of ToxCast assays mapped to a characteristic. In the table you sent me, 299 assays are mapped, while in the v115 it's 281 assays. I know assay mapping is probably an ongoing project, and ToxCast adds new assays to their system every now and then. So I guess the 299 could be a more recent development than the 281? If you decide to post the table with the 299 mapped assays, maybe you could point out that this is a newer development since the Monograph 115 was published?

Thanks again for your time and help!

Meng

Meng Sun, PhD, MS  
Staff Toxicologist  
Office of Environmental Health Hazard Assessment  
California Environmental Protection Agency  
Email: [meng.sun@oehha.ca.gov](mailto:meng.sun@oehha.ca.gov)

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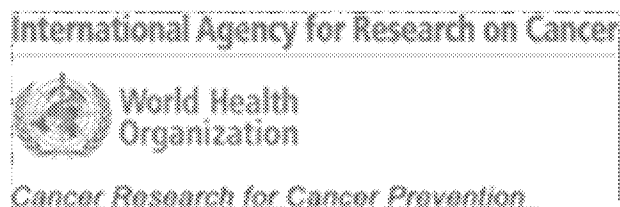
**From:** Kathryn Guyton [<mailto:GuytonK@iarc.fr>]  
**Sent:** Thursday, May 10, 2018 5:25 AM  
**To:** Sun, Meng@OEHHA <[meng.sun@oehha.ca.gov](mailto:meng.sun@oehha.ca.gov)>  
**Subject:** FW: Requesting a copy of the mapping spreadsheet for ToxCast assays

Dear Meng,

Please see the attached file, which I hope addresses your request, but please do not hesitate if not (or if having this posted on our website with the v115 publication would be helpful).

With kind regards,  
Kate  
Kate Z. Guyton, PhD DABT  
Scientist, Monographs Section

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**From:** "Sun, Meng@OEHHA" <meng.sun@oehha.ca.gov>  
**Date:** Wednesday 2 May 2018 at 19:00  
**To:** Kate Guyton <guytonk@iarc.fr>  
**Subject:** RE: Requesting a copy of the mapping spreadsheet for ToxCast assays

Hello Dr Guyton,

Thank you so much for getting back to me so quickly.

Yes we have been using the spreadsheets you kindly pointed us to, each containing 263 or 265 assays mapped, and a separate sheet for the assays in which the chemicals were tested for. We are seeking an updated mapping table because on Page 61 of the most recent monograph (#115), it says that IARC has recently reviewed an additional 18 assay endpoints and added to their mapping. However, the spreadsheet that comes with this monograph (can be found here <http://monographs.iarc.fr/ENG/Monographs/vol115/index.php> ) only includes 258 out of the 281 assays mapped. These 258 are probably what the five chemicals were tested for. In order to use the spreadsheet for our chemical of interest, it'd be great to have the whole set of 281 assays.

Thanks again for taking the time and effort to help us.

Meng

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**From:** Kathryn Guyton [mailto:GuytonK@iarc.fr]  
**Sent:** Wednesday, May 2, 2018 5:47 AM  
**To:** Sun, Meng@OEHHA <meng.sun@oehha.ca.gov>  
**Subject:** Re: Requesting a copy of the mapping spreadsheet for ToxCast assays

Dear Meng Sun,

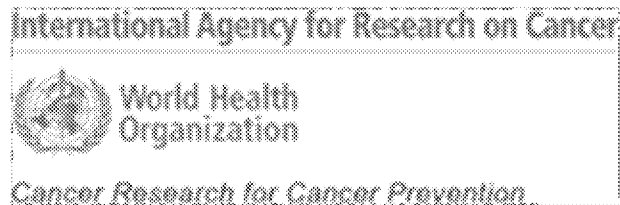
Thank you for your message. Perhaps the spreadsheet from v112 (at [Section 4.3 Spreadsheet \(.xlsx\)](#) or from v113 (at [Section 4.3 Spreadsheet \(.xlsx\)](#)) may be what you are looking for, as referenced in <https://www.altex.org/index.php/altex/article/view/98/135> ?

With kind regards,

Kate

Kate Z. Guyton, PhD DABT  
Scientist, Monographs Section

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**From:** "Sun, Meng@OEHHA" <[meng.sun@oehha.ca.gov](mailto:meng.sun@oehha.ca.gov)>  
**Date:** Tuesday 1 May 2018 at 23:33  
**To:** Kate Guyton <[guytonk@iarc.fr](mailto:guytonk@iarc.fr)>  
**Subject:** Requesting a copy of the mapping spreadsheet for ToxCast assays

Dear Dr Guyton,

I am a toxicologist working for OEHHA at California EPA. Several of my colleagues are familiar with you and have met you recently. We are trying to follow IARC's approach of mapping the Tox21 and ToxCast assays to the key characteristics of carcinogens. Would you be so kind to provide us a copy of the most updated mapping spreadsheet of the 281 assays? In the supplementary material for Monograph 115, there are only 258 assays mapped and I understand that's what those chemicals were tested for.

Your help will be greatly appreciated. It will help with our hazard identification process. Thank you so much.

Sincerely,

Meng

Meng Sun, PhD, MS

Staff Toxicologist

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